

INTERNATIONAL SEARCH REPORT

International application No.

PCT/KR2004/002881

A. CLASSIFICATION OF SUBJECT MATTER**IPC7 C02F 1/42**

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

B01D, B01J, C02F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean Patents and applications for invention since 1975

Korean Utility models and applications for Utility models since 1975

Japanese Utility models and application for Utility models since 1975

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKIPASS, Delphion, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	KR 98-77107 A (Daewoo Electronics Co., Ltd.) 16 November 1998 see the whole document	1-14
A	KR 99-83888 A (Woongjin Coway Co., Ltd.) 6 December 1999 see the whole document	1-14
A	US 4469602 A (Autotrol Corporation) 4 September 1984 see the whole document	1-14
A	US 5699272 A (Culligan International Company) 16 December 1997 see the whole document	1-14
A	JP 7-232167 A (Matsushita Electric Ind. Co., Ltd.) 5 September 1995 see the whole document	1-14
P, X	KR 04-47152 A (Seung Gwang Co., Ltd.) 5 June 2004 see the whole document	1-14



Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

23 MARCH 2005 (23.03.2005)

Date of mailing of the international search report

24 MARCH 2005 (24.03.2005)

Name and mailing address of the ISA/KR

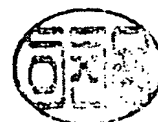
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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/KR2004/002881

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
KR 98-77107 A	16-11-1998	NONE	
KR 99-83888 A	06-12-1999	NONE	
US 4469602 A	04-09-1984	JP 60007988 A2 IT 1162941 A GB 2126209 A FR 2532193 A1 EP 0129138 A2 DE 3233238 A1 CA 1208741 A1	16-01-1985 01-04-1987 21-03-1984 02-03-1984 27-12-1984 15-03-1984 29-07-1986
US 5699272 A	16-12-1997	WO 9730940 A1 US 5699272 CA 2217735 AA AU 2127097 A1	28-08-1997 16-12-1997 28-08-1997 10-09-1997
JP 7-232167 A	05-09-1995	NONE	
KR 04-47152 A	05-06-2004	NONE	